CONTENTS VOLUME 187

A. Ohsaki and H. Nakamura. Hyperspherical coordinate approach to atom–diatom chemical reactions in the sudden and adiabatic approximations — No. 1, p. 1

A. Kumar. Soliton dynamics in a monomode optical fibre — No. 2, p. 63

L. Vepstas and A.D. Jackson. Justifying the chiral bag — No. 3, p. 109

V.M. Dubovik and V.V. Tugushev. Toroid moments in electrodynamics and solid-state physics — No. 4, p. 145

P.F. Smith and J.D. Lewin. Dark matter detection — No. 5, p. 203

D. David, D.D. Holm and M.V. Tratnik. Hamiltonian chaos in nonlinear optical polarization dynamics — No. 6, p. 281

CONTENTS VOLUMES 181–186

P. Schlottmann. Some exact results for dilute mixed-valent and heavy-fermion systems — 181, Nos. 1 & 2, p. 1

A.V. Bogdanov, G.V. Dubrovskii, Yu.E. Gorbachev and V.M. Strelchenya. Theory of vibrational and rotational excitation of polyatomic molecules — 181, No. 3, p. 121

D.O. Riska. Exchange currents — 181, No. 4, p. 207

W.B. Bonnor, A.K.G. de Oliveira and N.O. Santos. Radiating spherical collapse — 181, No. 5, p. 269

Yu.G. Gurevich and O.L. Mashkevich. The electron–phonon drag and transport phenomena in semiconductors — 181, No. 6, p. 327

R.D. Ball. Chiral gauge theory — 182, Nos. 1 & 2, p. 1

G.G. Pavlov, Yu.A. Shibanov and P. Mészáros. Comptonization in strongly magnetized and nonmagnetized plasmas — 182, No. 3, p. 187

S.O. Gladkov. The kinetics of nuclear magnetically ordered systems — 182, Nos. 4 & 5, p. 211

A. Giazotto. Interferometric detection of gravitational waves — 182, No. 6, p. 365

F.V. Kusmartsev. Application of catastrophe theory to molecules and solitons — 183, No. 1, p. 1

H. Friedrich and D. Wintgen. The hydrogen atom in a uniform magnetic field – an example of chaos — 183, No. 2, p. 37

H.-T. Elze and U. Heinz. Quark–gluon transport theory — 183, No. 3, p. 81

S.M. Wagh and N. Dadhich. The energetics of black holes in electromagnetic fields by the Penrose process — 183, No. 4, p. 137

J.L. Hewett and T.G. Rizzo. Low-energy phenomenology of superstring-inspired E_6 models — 183, Nos. 5 & 6, p. 193

C.B. Dover, D.J. Millener and A. Gal. On the production and spectroscopy of Σ hypernuclei — 184, No. 1, p. 1

C. Itzykson, S. Kirkpatrick, G. Parisi, N. Sourlas and M.A. Virasoro, eds. Common trends in statistical physics and field theory, Proc. Cargèse Advanced Research Workshop — 184, Nos. 2–4, p. 99

A.S. Mikhailov. Selected topics in fluctuational kinetics of reactions — 184, Nos. 5 & 6, p. 307

L. Lusanna. An enlarged phase space for finite-dimensional constrained systems, unifying their Lagrangian phase- and velocity-space descriptions — 185, No. 1, p.1

A.N. Klucharev and V. Vujnović. Chemi-ionization in thermal-energy binary collisions of optically excited atoms — 185, No. 2, p. 55

P.J. Mulders. Modifications of nucleons in nuclei and other consequences of the quark substructure — 185, No. 3, p. 83

M.M. Nesterov and N.A. Tarasov. Semiclassical approach to the description of nuclear reactions with fast particles — 185, No. 4, p. 171

H.Z. Cummins. Experimental studies of structurally incommensurate crystal phases — 185, Nos. 5 & 6, p. 211

S.V. Bulanov, L.M. Kovrizhnykh and A.S. Sakharov. Regular mechanisms of electron and ion acceleration in the interaction of strong electromagnetic waves with a plasma — 186, No. 1, p. 1
J. Maalampi and M. Roos. Physics of mirror fermions — 186, No. 2, p. 53
L.G. Genkin and L.M. Erukhimov. Interplanetary plasma irregularities and ion acoustic turbulence — 186, No. 3, p. 97
A. Niehaus. Spontaneous electron emission from slow atomic collisions — 186, No. 4, p. 149
J.B.A. Mitchell. The dissociative recombination of molecular ions — 186, No. 5, p. 215
A. Chatterjee. Large-N expansions in quantum mechanics, atomic physics and some O(N) invariant systems — 186, No. 6, p, 249